

APEGS /Geoscientist Canada Geoscience Knowledge Requirement Course List in Geology, University of Regina
Revised: February 2023
(courses in brackets are no longer offered)

	Groups	Geology Geoscience Subjects	UofR courses	Applicant Courses
3	1A Compulsory Foundation Science (Total 3 EUs) (1 EU in each area required) <i>All courses in each category are allowable towards the total EU unless the word "or" is shown.</i>	Chemistry Mathematics Physics	CHEM 104, 105, 230, (102), (103) MATH 110, 111 (105) PHYS 109, 111, 112, 119	
6	1B Additional Foundation Science (Total 6 EUs) (6 EUs required, no more than 2 Additional Science EUs in any one subject.)	Biology Chemistry Computer Programming Mathematics Physics Statistics	BIOL 100, 101, <u>or</u> 140 <u>or</u> 150 (can't get credit for 140 or 150 if you already have credit for 100 or 101; higher level 3 Cu courses in biology that have any of these as a prerequisite and are acceptable as science credits in a science degree may also be acceptable; note: BIOL 223 is not acceptable) CHEM 104, 105, 140, 230, (102), (103) (higher level 3Cu courses in Chemistry that have any of these as a prerequisite and are acceptable as science credits in a science degree may also be acceptable; note: Chem 100 is not acceptable) CS 110, (130), (109) (higher level 3Cu courses in Computer Science that have any of these as a prerequisite and are acceptable as science credits in a science degree may also be acceptable; note: Comp100 is not acceptable.) MATH 110, 111, 122, (105) (higher level 3 Cu courses in Math that have any of these as a prerequisite and are acceptable as science credits in a science degree may also be acceptable; note: Math 101, 102, 103 and 104 are not acceptable) PHYS 109, 111, 112, 119 (higher level 3 Cu courses in Physics that have any of these as a prerequisite and are acceptable as science credits in a science degree may also be acceptable; note: Phys 140 and 142 are not acceptable) STATS 100 or 160 or (151) (higher level 3 Cu courses in Statistics that have any of these as a prerequisite and are acceptable as science credits in a science degree may also be acceptable)	
4	2A Compulsory Foundation Geoscience (Total 4EUs) (1 EU in each area required)	Field Techniques Mineralogy and Petrology Sedimentation and Stratigraphy Structural Geology	GES 411 (GEOG 411), GEOL 396, 496 GEOL 210, 211, 313, 315, 413 GEOL314, 340 GEOL 353 or (250), 453 or (350)	
5	2B Additional Foundation Geoscience (Minimum Total 5 EUs) (5 EUs required. Geology and Environmental Geoscience - a minimum of 1 and at most 2 from each sub-group; Geophysics - no more than 1 from each sub-group). Only one allowed from any given subject.	Geochemistry Geophysics	GEOL 307 or (471) GEOL 460	

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2B	Continued	Igneous Petrology Metamorphic Petrology Sedimentary Petrology	GEOL 313 GEOL 315 GEOL 314	
		Sedimentology Glacial Geology or Geomorphology Remote Sensing or GIS	GEOL 314, 414, 416 GEOL 429 or GES 429 (GEOG 429), GES 323 (GEOG 323) GES 309 (GEOG 309), ENEV 480	
9 2C	<p>Other Geoscience/Science (Minimum Total 9 EUs) (9 EUs must be from the EUs list or must be at a second level or higher acceptable for science credit toward a degree in science, applied science or engineering and relevant to geoscience). Extra subjects not used in 2A and 2B can be used in 2C. No one subject can be used to cover more than one requirement. All courses in each category are allowable towards the total EU unless the word "or" is shown.</p>	<p>The following groupings of subject areas could be used to satisfy the knowledge requirements for the other geoscience/science (2C). Within each subject area are listed possible topics that could be used to satisfy the requirements. The list is not meant to be exhaustive, but is provided as guide to topics that could satisfy the geoscience knowledge requirements.</p> <p>Communication Thesis Technical Writing</p> <p>Earth Systems Climatology Meteorology Oceanography Earth Systems</p> <p>Environmental Hydrogeology Hydrology Environmental Geology Limnogeology Biogeochemistry</p> <p>Field Techniques</p> <p>Geochemistry Exploration Geochemistry Environmental Geochemistry Isotope Geochemistry Aqueous Geochemistry</p> <p>Geomorphology Quaternary Geology Pedology Geomorphology</p> <p>Geophysics Physics of the Earth Exploration Geophysics Applied Geophysics Environmental Geophysics</p>	<p>GEOL 400AA + 400AB or 400 AC</p> <p>GES 421 (GEOG 421) GES 321, 421 (GEOG 321, 421)</p> <p>GEOL 201, 240, (GEOG 221)</p> <p>GEOL (371), 474, 476 GES 327 (GEOG 327, 474)</p> <p>GEOL 396, 496, GES 411 (GEOG 411)</p> <p>GEOL 307 or 471, 473</p> <p>GEOL 429 or GES 429 (GEOG 429) GES 329 (GEOG 329) or GEOL 329 GES 323, 423, 429 (GEOG 323, 423, 429)</p> <p>GEOL 460</p>	

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2C	Continued	<p>Geotechnical Natural Hazards Engineering Geology Soil Mechanics Rock Mechanics</p> <p>Mineralogy Crystallography X-ray Crystallography Optical Mineralogy Analytical Methods</p> <p>Paleontology Micropaleontology Palyonology Paleobiology</p> <p>Petrology Igneous Petrology Volcanology Metamorphic Petrology Sedimentary Petrology</p> <p>Quantitative Analysis Geostatistics Computer Applications in Geoscience Geographic Information Systems</p> <p>Regional Geology Geology of Canada Geology of N. America</p> <p>Remote Sensing Airphoto Interpretation Remote Sensing</p> <p>Resource Geology Economic Geology Mineral Deposits Geology Ore Petrology Coal Geology Petroleum Geology Industrial Minerals</p> <p>Sedimentology Chemical Sedimentology Clastic Sedimentology Carbonate Sedimentology Glacial Geology</p> <p>Stratigraphy Historical Geology Sequence Stratigraphy Stratigraphic Paleontology Geochronology</p> <p>Structure Global Tectonics Tectonics Structural Geology</p> <p>Other acceptable Global considerations in Geology</p>	<p>ENEV 383 GES 329 (GEOG 329) or GEOL 329</p> <p>GEOL 210, 211</p> <p>GEOL 241 or (220) BIOL 476</p> <p>GEOL 313, 413 GEOL 315 GEOL 314</p> <p>GEOL 490 GEOG 203, 303, 409</p> <p>GEOL 451, 452</p> <p>GEOG 207 GEOG 309, ENEV 480</p> <p>GEOL 270 GEOL 470 GEOL 470</p> <p>GEOL 472, 473</p> <p>GEOL 414, 314 GEOL 416 GEOL 429 or GEOG 429</p> <p>GEOL 340 GEOL 240</p> <p>GEOL 452 GEOL 353, 453</p> <p>GEOL 490-495 (if topic acceptable)</p>	
27	Minimum EU Requirement	TOTAL	27	